

BUCKEYE CARIBBEAN TERMINALS, LLC

Colebrating (25 Hours of Service

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June 19, 2013

<u>Certified Mail No.</u> 7012 1010 0000 7643 9580

Ms. Kate Anderson, Chief Clean Water Regulatory Branch Division of Environmental Planning and Protection US Environmental Protection Agency, Region 2 290 Broadway New York, New York 1007-1866

Re: NPDES Permit Application Revision No. 2 Permit No. PR0000400 Buckeye Caribbean Terminals LLC Yabucoa, Puerto Rico

Dear Ms. Anderson:

Enclosed please find information and documents responding to EPA's letter dated May 16, 2013 related with the NPDES Application Revision submitted for the Buckeye Caribbean Terminals LLC (BCTL) petroleum bulk distribution terminal located at State Road 901, km 0.7, Yabucoa, Puerto Rico.

On a letter dated May 16, 2013, and received on May 21, 2013, EPA requested new information and clarifications regarding the NPDES revised application package. Attachment 1 includes a response to each of EPA's comments submitted in the letter.

The following revised pages and documents needs to be inserted or replaced in the September 20, 2012 submission:

- Attachment 1: Response to EPA's letter dated May 16, 2013-Narrative document which provides answers to all EPA's inquiries.
- Attachment List -Version June 2013- Replaces Appendix List submitted September 20, 2012

- Attachment 2: Revised Explanatory Memorandum dated June 2013 -Replaces Explanatory Memorandum
- Attachment 4: Revised Forms 2 C for Outfall 001 -Replaces Forms 2 C for Outfall 001 signed on September 20, 2012.
- Attachment 5: Revised Form 2 F for Outfall 001 -Replaces Form 2 F for Outfall 001 signed on September 20, 2012.
- Attachment 6: Revised Form 2 F for Outfall 002 -Replaces Form 2 F for Outfall 002 signed on September 20, 2012.
- Attachment 8: Revised Description of Treatment Units -Replaces Description of Treatment Units submitted on September 20, 2012.
- Attachment 9: Revised Water Balance -Replaces Water Balance submitted on September 20, 2012.

Attachment 10[A]: It has been revised and renamed as Storm Water Drainage Outfall 001 and 002- The revised Attachment 10[A] also replaces Figure 2.5 of the Storm Water Pollution Prevention Plan.

Attachment 10[A1]: A new Attachment named Outfall 001 and 002 Paved and Impervious Areas is included to depict and denote these areas.

Attachment 10[A2]: A new Attachment named Significant Materials Storage Locations is included to illustrate the areas that were previously, and are presently used for significant materials storage purposes.

Attachment 10[A3]: A new Attachment named Structural Controls- Dikes and Curbs, is included to illustrate the corresponding dikes in the Tank Farm area, and the dikes and curbs located in the Refinery.

Attachment 10[A4]: A new Attachment named Outfall 002 Non-Contact Storm Water Structural Controls is included to illustrate the location of structural controls such as sediment traps, gabions, screen bar and channels.

Attachment 10 [A5]: A new Attachment named Herbicides Application Areas is included to depict and denote these areas.

Attachment 10[A6]: A new Attachment named Plant Storm Water Runoff Contact & Non-Contact Areas is included to depict and denote these areas.

I certify under the penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that Ms. Kate Anderson June 19, 2013 Page 3 of 3

qualified personnel properly gathered and evaluated the information submitted. Based on my enquire the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief true, accurate and complete.

I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Cordially,

Hans Rutzen

Operations Director

Buckeye Caribbean Terminals LLC

cc: Ms. Wanda García

Director, Water Quality Area

Puerto Rico Environmental Quality Board

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Attachment List (version June 2013)

Attachment 1 Response to EPA Comments Letter

Attachment 2 Explanatory Memorandum

Attachment 3 Form 1: General Information

Attachment 4 Forms 2C for Outfall 001

Attachment 5 Form 2F for Outfall 001

Attachment 6 Form 2F for Outfall 002

Attachment 7 Topographic Map

Attachment 8 Description of Treatment Units

Attachment 9 Water Balance

Attachment 10 September 2012 SWPPP

Attachment 10[A] Storm Water Drainage Map Outfalls 001 and 002

Attachment 10[A1] Outfall 001 and 002 Paved /Impervious Areas

Attachment 10[A2] Significant Materials Storage Locations

Attachment 10[A3] Structural Control Dikes and Curbs

Attachment 10[A4] Outfall 002 Non-Contact Storm Water Structural Control

Attachment 10[A5] Herbicide Application Areas

Attachment 10[A6] Plant Storm Water Runoff Contact & Non-Contact Areas

Attachment 11 Consent Decree

Attachment 12 Progress Report

Attachment 13 Demolition Plan

Attachment 14 Lease Contracts

Attachment 15 Raw Sampling Results

Attachment 16 Non-Stormwater Evaluation Certification

Attachment 17 Scheduled Maintenance Activities

Attachment 18 Conceptual Engineering Report

Attachment 1
Response to EPA Comments Letter dated May 16, 2013
(received on May 21, 2013)

Attachment 1

Response to EPA Comments dated May 16, 2013

Page 1 and 2 of 13 General Deficiencies:

EPA Comment or Request:

Current Application Not Representative of WWTP Closure - The explanatory memorandum in attachment 2 of the September 20,2012 NPDES permit application on page 2 states:

The intention is to close the wastewater treatment plant once the demolition is completed and all of the logistics involved with the closure can be identified and worked out. A timely NPDES application that includes a closure plan for the existing wastewater plant will be prepared at least 180 days prior to the onset of closure activities.

If a revised application is necessary for the Waste Water Treatment Plant (WWTP) closure because the current September 20,2012 application submitted to EPA is not representative of the discharge based on these future closure activities and that revised application is submitted after EP A has both: 1) received a complete application for the current activities and 2) initiated the permit issuance process leading to issuing a final NPDES permit (including sending a notice of completeness letter, requesting a water quality certification, etc.), then EP A R2 does not plan to reinitiate the permit issuance process based on a future application received after we have initiated this permit issuance process for the current application (once it is complete). EP A would issue a final NPDES permit which would only authorize the activities reported in the current application and which would not be based on the closure activities reported in the revised application. The closure activities would not be authorized under that permit and as such CORCO could not commence closure activities until a renewal NPDES permit based on those updated activities is issued. Also, although EPA may modify or revoke and reissue a permit during its term under 40 CFR § 122.62, if cause exists, EPA is not required to do so.

Therefore, if CORCO is intending to close the WWTP during the term of the permit for which CORCO has currently submitted an application, then it should consider including this information in the current renewal application. The permit which will be prepared would currently only authorize the discharge from the activities reported in the current application and EPA may not be able to modify or revoke and reissue the permit according to the time constraints of CORCO's closure activities (e.g., due to other EPA priorities, possible need for revised water quality certification, etc.).

However, if it is CORCO's intent to start closure activities only after the current NPDES permit being prepared is expired and after a subsequent renewal

permit is issued based on a renewal application which is representative of the closure activities, then that renewal application would be submitted 180 days prior to the permit expiration of the NPDES permit currently being prepared (i.e.,

under EPA regulations in 40 CFR §122.21(d)(2), a timely and complete renewal application will be submitted 180 days prior to the permit expiration}.

Response From BCTL:

Since a plan and schedule for completion of the Refinery demolition has not yet been finalized, BCTL is submitting this revised NPDES application without considering the closure of its wastewater treatment plant. BCTL will be requesting a modification or revocation and reissuance of the NPDES permit at least 180 days prior to the future planned elimination of the treatment facility, when alternate treatment or disposal schemes will be proposed for any remaining wastewater. We understand that closure activities cannot commence until an NPDES permit based on the updated activities is issued from EPA. All references to CORCO should be to BCTL.

Page 3 of 13 Application Form 2C (Outfall 001)

EPA Comment or Request:

- 1. Item IIA- Application Form 2C, Item II.A requires a line drawing to be attached. For Item II.A, EPA reviewed the line drawing shown in Attachment 9 entitled "Water Balance Current Conditions, Buckeye Caribbean Terminals LLC". The line drawing must also indicate treatment units. As such, EPA also reviewed Attachment 8 (entitled "Waste Water Treatment Plant Units, Buckeye Caribbean Terminals LLC") since it also shows water flow through the facility and treatment units (in more detail). The following deficiencies must be addressed:
 - a. Water Flow Through the Facility Tank Drains to 2 or 3 Cell Separator The water balance in Attachment 9 shows the "Tank Drains" going to the 2 Cell Separator.

However the "Description of Treatment Units" in Attachment 8 shows the "Tank Water Drains from Tank Farm" going to the 3 Cell Separator.

This discrepancy must be corrected.

Response From BCTL:

Tank water drains from Tank Farm goes either to the 3-cell or the 2-cell API separators. Attachment 8 (Description of Treatment Units), Attachment 9 (Water Balance Diagram), and Form 2-C for outfall 001 of the NPDES revised application were modified.

Page 4 of 13 Application Form 2C (Outfall 001)

EPA Comment or Request:

b. Water Flow Through the Facility - Show if Refinery WWTP Treats Sanitary-The water balance in Attachment 9 does not show sanitary wastewater (Domestic) being treated in the refinery WWTP but instead it shows it as being treated in the DAVCO WWTP:

However the explanatory memo in Attachment 2 indicates that it is being treated in the WWTF located at the closed refinery:

The WWTF located at the dosed refinery is in operation and is treating storm waters from the contact areas of the dosed refinery, sanitary wastewaters, wash waters from refinery foot print area, water drained from storage tanks from the tank farm area, water from firefighting drills and other discharges such as condensate from air conditioning units, covered under current NPDES Permit PR0000400

This discrepancy must be addressed.

Response From BCTL:

Refinery's WWTP does not treat sanitary waste waters (Domestic). DAVCO package wastewater plant treats domestic waste waters. Explanatory Memo in Attachment 2 was modified to add clarity.

Page 5 of 13 Application Form 2C (Outfall 001)

EPA Comment or Request:

c. Water Balance between Treatment Units - Material Balance around 3 Cell Separator- Attachment 9 shows the material balance in and out of the "3 Cell" unit (i.e., the 3 Cell Separator):

The total into the unit is 104.426 kgpd (0.16 + 0.60 + 98 + 5 + 0.666). However, the total out of the unit is 103.76. This discrepancy of 0.666 kgpd must be addressed as well as the subsequent balances further downstream.

Response From BCTL:

The total into 3 Cell API Separator Unit (in kgpd) include 0.16 from Firefighting Drills +0.60 from Pavement Washings+ 98 from Closed Refinery+ 5 from Future Demolition + 0.015 from Tank Farm drains= 103.770 kgpd. The 0.666 kgpd goes to API Separator and WEMCO instead of 3 Cell API Separator. Attachment 9

(Water Balance Diagram) was modified to show the correct numbers.

EPA Comment or Request:

2. <u>Item II.B.2</u>- The instructions for Item II.B.2 require a description of all operations contributing wastewater to the effluent, and the average flow contributed. The detailed instructions for Item II.B specifies the following in part:

List all sources of wastewater to each outfall. Operations may be described in general terms (for example, "dye-making reactor" or "distillation tower")

The following deficiency must be addressed for Item II.B.2:

a. Item II.B.2.a Operations - Caño Santiago (Infiltration) - The line drawing in Item IIA (Attachment 9) of the application shows the operation "Caño Santiago Infiltration" with a flow of 1.4 kgpd:

The instructions in Item II.A require that this operation must correspond to the more detailed descriptions in Item II.B. Item II.B.2 must show this operation and average flow.

Response From BCTL:

The Caño Santiago/Lajas Creek Infiltrations contributions are discharged to both Outfalls 001 and 002. The 58 kgpd directed to the WWTP already contain such contributions and, similarly, the corresponding discharges from the Fire Drills, Air Conditioner Condensates and Non-contact Areas Storm Runoff. These discharges were proportionally divided based on the flows detailed in Attachment 9 (Water Balance), and all have also been included in Form 2C item II.B.2 for Outfall 001.

Page 6 of 13 Application Form 2C (Outfall 001)

EPA Comment or Request:

3. Item II.B.3 Treatment for Olein Storm Water, Fire Drill Waters, Fire Hydrant Flushing and Air Conditioner Condensate- The line drawing in Item II.A (Attachment 9) of the application shows the following material balance around the "Tank Farm":

It shows that 360 kgpd exits the tank farm to treatment in the "API Separator and WEMCO", 0.666 kgpd exits the tank farm to treatment in the "3-cell" API Separator and 7.3 kgpd exits for "Marine Vessel Use" and "Septic Tank Use".

However, it does not show how the incoming flows to the tank farm are divided between the flows exiting the tank farm.

It appears that 360 kgpd of storm water from the tank farm exits directly to the "API Separator and WEMCO" and 7.3 kgpd of "Potable Water PRASA" from the tank farm exits directly to the Marine Vessel Use (3 kgpd) and Septic Tank Use (4.3 kgpd). The remaining 0.666 kgpd exiting the tank farm goes to the 3-cell API Separator. This flow appears to be made up of 0.4 kgpd Olein Runoff, 0.16 kgpd Fire Drills, 0.1 Fire Hydrant Flushings and 0.006 kgpd Air Conditioner Condensates.

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However, Item II.B.3 appears to show that the 0.666 kgpd flow from these operations go to the "Tank Farm API and WEMCO Treatment"

Therefore, the application must clarify how the flows that enter the tank farm are treated. Specifically:

• the application must clarify whether the 0.4 kgpd Olein Runoff, 0.16 k d Fire Drill Water, 0.1 kgpd Fire Hydrant Flushing and 0.006 kgpd Air Conditioner Condensate s all go to the "3-cell" API Separator for treatment or whether a portion of any goes to the "Tank Farm API and WEMCO Treatment" or for "Marine Vessel" or "Septic Tank" use.

Response From BCTL:

The 0.666 kgpd previously identified as going to the 3-cell separator from the Tank Farm was incorrect and deleted in the water balance diagram (Attachment No. 9). The Olein Runoff (0.4 kgpd), Fire Drill Water (0.16 kgpd), Fire Hydrant flushing's (0.10 kgpd) and Air Conditioned Condensate (0.006 kgpd) making up the 0.666 kgpd goes into API Separator and WEMCO for treatment, not the 3-cell separator. A flow of 7.3 kgpd from PRASA's potable water enters the Tank Farm from which 3 kgpd goes to Marine Vessel's use and 4.3 kgpd(for Tank Farm use). After use, the waste water goes to the Septic Tank. Application Form 2C was amended to include these changes.

EPA Comment or Request:

the application must clarify whether all of the 360 kgpd storm runoff from the tank farm goes to the "API Separator and WEMCO" or whether a portion goes to the "3-cell" API separator or for "Marine Vessel" or "Septic Tank" use.

Response From BCTL:

The 360 kgpd storm runoff from the tank farm goes entirely to the "API Separator

and WEMCO". Attachment 9 (Water Balance Diagram) illustrates this. Application Form 2C was amended as required.

EPA Comment or Request:

 the application must clarify whether the entire 7.3 kqpd "Potable Water PRASA from the tank farm goes entirely to "Marine Vessel Use" and "Septic Tank Use" or whether a portion goes to either the "Tank Farm API and WEMCO Treatment" or "3-cell" API Separator.

Response From BCTL:

The 7.3 kgpd potable Water PRASA entering the Tank Farm is split in two. A flow of 3 kgpd goes to Marine Vessel use and 4.3 kgpd goes to the Septic Tank, following use. Attachment 9 (Water Balance Diagram) illustrate this. Application Form 2C was amended to indicate this.

EPA Comment or Request:

4. Item IX- When re-submitting the revised application information, the certification in Item IX for Outfall 001 must be re-signed and dated.

Response From BCTL:

Application Form 2C (Outfall 001) was re-signed and dated.

Page 8 of 13 Application Form 2F (Outfalls 001 and 002)

EPA Comment or Request:

Application Form 2F (Outfalls 001 and 002):

- 1. <u>Item III</u> Form 2F, Item III requires a site drainage map. Attachment 6 of the prior submission included six different maps of which the 3rd, 4th and 5th referred to drainage maps in their title. The current submission includes topographical maps in Attachment 7 which do not show drainage areas and also includes the following maps which are related to site drainage:
 - Attachment 10, Figure 2.5: It is titled "Storm Water Drainage Map Outfall 002" and the project is titled "Storm Water Drainage Areas",
 - Attachment 10(A)September 2012 SWPPP, SWPPP 2F Related Diagrams: It is titled "Storm Water Drainage Map Outfall 002" and the project is titled "Storm Water Drainage Areas", and
 - Attachment 11 Consent Decree: It is titled "Drainage Diagram".

The following deficiencies found with these maps must be addressed:

a. The instructions require the map to depict the drainage area of each storm water outfall. The map shows drainage areas by coloring and stripped shading. EPA has found the following deficiencies with the site drainage map, which must be addressed. The map being referred to is the map in Attachment 10A of the application unless otherwise specified:

Refinery Area:

- West Channel (Outfall 002): The map appears to denote this area by purple shading and by including the title "West Channel". There is a description elsewhere in the application, which indicates that this channel goes to Outfall 002. But the map does not denote that this is the drainage area for Outfall 002. Therefore, the map must denote the outfall for this drainage area.
- East Channel (Outfall 002): The map denoted this area by red shading and by including the title "East Channel". There is a description elsewhere in the application that indicates that this channel goes to Outfall 002. But the map does not denote that this is the drainage area for Outfall 002. Therefore, the map must denote the outfall for this drainage area.
- Undefined Area between East & West Channel: The map denotes this
 area by green shading but does not provide a title to this area. The map
 does not denote the outfall to which the storm water from this area
 discharges. Therefore, the map must denote the outfall for this drainage
 area. A title is not necessary.
- Undefined Area above East Channel (with WWTP, etc.): The map denotes this area by yellow shading but does not provide a title to this area. The map does not denote the outfall to which the storm water from this area discharges. Therefore, the map must denote the outfall for this drainage area. A title is not necessary.

Response From BCTL:

Attachment 10-A, has been revised and renamed as Storm Water Drainage Map Outfalls 001 and 002 to clarify the identification of the drainage areas for Outfalls 001 and 002. The revised Attachment 10-A also replaces Figure 2.5 of the Storm Water Pollution Prevention Plan.

Attachment 11 is the Consent Decree and the Drainage Diagram, as part of it, cannot be modified by BCTL.

Page 9 of 13 Application Form 2F (Outfall 001 and 002)

EPA Comment or Request:

 Tank Farm Area: This area is denoted by red shading. There is a description elsewhere in the application that indicates that this area goes to Outfall 001.
 But the map does not denote that this is the drainage area for Outfall 001.
 Therefore, the map must denote the outfall for this drainage

Response From BCTL:

Attachment 10-A, has been revised and renamed as Storm Water Drainage Map Outfalls 001 and 002 (Drawing No. C-05) to clarify the identification of the drainage areas for Outfalls 001 and 002. The revised Attachment 10-A also replaces Figure 2.5 of the Storm Water Pollution Prevention Plan.

EPA Comment or Request:

 Dock Area: The map in Attachment 10, Figure 2.5 shows red shading continuing from the tank farm area all the way to the dock facilities. However, the map in Attachment 10[A] does not show this shading. Therefore, this discrepancy must be corrected and the map must denote the outfall for this drainage area.

Response From BCTL:

Attachment 10-A, has been revised and renamed as Storm Water Drainage Map Outfalls 001 and 002 (Drawing No. C-05) to clarify the identification of the drainage areas for Outfalls 001 and 002. The revised Attachment 10-A also replaces Figure 2.5 of the Storm Water Pollution Prevention Plan.

EPA Comment or Request:

Other Areas: An other areas within the property boundary (e.g., pipe rack connecting Tank Farm and Refinery Areas; pipe rack connecting Tank Farm and Dock Areas; etc.), which are drainage, areas for either of the outfalls must be specified along with the outfall for the drainage area

Response From BCTL:

Attachment 10-A, has been revised and renamed as Storm Water Drainage Map Outfalls 001 and 002 to clarify the identification of the drainage areas for Outfalls 001 and 002. The revised Attachment 10-A also replaces Figure 2.5 of the Storm Water Pollution Prevention Plan. Please note that the un-shaded area between the Closed Refinery's Earth Dike and the Olein facilities is not a part of BCTL's property.

EPA Comment or Request:

b. The instructions require the map to depict paved areas within the drainage

area of each storm water Outfall. In the prior deficiency letter, EPA indicated that it is not clear in the map which areas in each of these drainage sub-basins are actually paved/impervious and required that they be identified on the map(s) in the application. The narrative response in Attachment 1 states: "The area determination made in the applications is correct based on site visits". It goes on to say: "The map will be presented in more detail to provide information requested." EPA has reviewed the updated maps in Attachment 10, Figure 2.5 and Attachment 10[A]. Both maps include a colored legend which appears to denote different areas as follows:

- The entire yellow area on the maps appears to be denoted in yellow as "Concrete Channel" on the legend. It appears to include the refinery area north of the East Channel (e.g., the wastewater treatment plant, flood control pond, etc.);
- The red area on the maps appears to be denoted in red as "sub-basin" on the legend. It appears to include the entire East Channel, the entire Tank Farm Area, and the pipe rack connecting the Tank Farm and refinery Areas. Figure 2.5 also includes in red the pipe rack connecting the Tank Farm and Dock areas and the Dock area;
- The purple area in the maps is not denoted on the legend: It appears to include the entire West Channel; and

The green area the maps appear to be denoted in green as "Earth Channel" on the legend. It appears to include the middle of the refinery area between the East and West Channels.

Response From BCTL:

- Attachment10A was revised, and now shows all contours outlined in black:
- The yellow area contour is now shaded, and outlined in black. The concrete channel is colored in solid yellow.
- The red shaded area depicts the Tank Farm sub-basin, and does not include the East Channel, which is depicted in orange. The earthen channel delimiting the sub-basin is shown as a solid brown line.
- The purple shaded area in the map is now denoted on the legend and includes the entire West Channel.
- The green area contour is shaded, and is now outlined in black.

Page 10 of 13 Application Form 2F (Outfall 001 and 002)

EPA Comment or Request:

The maps do not show if the red area in the East Channel is entirely

paved. The narrative response says:

The maps included distinguished the main roads and buildings. These are considered paved areas. On the former refinery area (marked green is mostly paved area. Certain areas may have grass on them and still be paved. The determination of paved and unpaved a made on the NPDES Forms 2F considered these areas but not provide full detail to not overload the diagram.

Therefore, the map must identify (in the legend if possible or elsewhere on the map) that the Red area in the East Channel is paved/impervious. In addition, the maps do not show if the red area in the Tank Farm Area is entirely paved. The narrative response says:

The area determination made in the applications is correct based on site visits. We did not provide the full detail to not overload the image presented.

In addition, the maps do not show if the red area in the pipe rack connecting the Tank Farm and Refinery Areas is impervious. If so, then the map must identify (in the legend if possible or elsewhere on the map) that this area is paved/impervious. Also, the continuation of this pipe rack from the road shown as "P.R. No. 53" westward to the Refinery area is not identified by any coloring. If it is part of an outfall basin and is impervious it must be identified as paved/impervious.

In addition, the maps do not show if the red area in the pipe rack connecting the Tank Farm and Dock areas is impervious as well as whether the Dock area itself may be impervious. If so, then the map must identify (in the legend if possible or elsewhere on the map) that this area is paved/impervious.

Response From BCTL:

A new Attachment 10[A1] named Outfalls 001 and 002 Paved/Impervious Areas is included to illustrate the areas that are actually paved and impervious.

Page 11 of 13 Application Form 2F (Outfall 001 and 002)

EPA Comment or Request:

c. The instructions require the map to depict each known past or present areas used for outdoor storage or disposal of significant materials. In the prior deficiency letter, EPA indicated that the statement in Form 2F, Item IV.B indicates that, although exposure to materials and products is minimized, there still may be exposed materials, specifically significant materials and if so, then the map must be revised to depict any such areas. The narrative response in Attachment 1 states: "Map has been

updated with this information". EPA has reviewed the updated maps in Attachment 10, Figure 2.5 and Attachment 10 [A]. EPA found a pointer to "Hazardous Waste Storage Area" in the yellow area within the Refinery Area and a pointer to "Intermediate Tank Storage" within the Refinery Area.

However, neither indicates whether these areas are outdoors, whether significant materials are stored there and whether these are past and/or present areas. Therefore, if there are any known past or present areas used for outdoor storage or disposal of significant materials, the map must depict these areas and indicate that the area is outside and that it was either used in the past or is used presently for significant materials.

Response From BCTL:

A new Attachment 10[A2] named Significant Materials Storage Locations is included to illustrate the areas that were previously, and are presently used for significant materials storage purposes.

EPA Comment or Request:

d. The instructions require the map to depict each existing structural control measure to reduce pollutants in storm water runoff.

Outfall 001: Application 2F, Item IV.C for Outfall 001 describes structural control measures including "Dike areas at Tank Farm". In the prior deficiency letter, EPA indicated that the map must be revised to depict and denote the dike areas in the tank farm area. It also indicated that the map must be revised, as necessary, to depict and denote dike areas in the old refinery area. The narrative response in Attachment 1 states: "Map has been updated to present these areas". EPA has reviewed the updated maps in Attachment 10, Figure 2.5 and Attachment 10 [A]. The revised maps continue to show a single red line around the tank farm area with red hash marks. A pointer to the red hash lines is shown as "Flood Control Dike". The application refers to dike areas as plural in the tank farm area. However, only a single red line surrounding the entire tank farm area is shown. If there is more than a single dike in the tank farm area, then the map must be revised to depict and denote each individual dike for Outfall 001.

Also, the narrative response in Attachment 1 states that "on the contact areas the former refinery units are located within concrete dikes that would drain into the 3 cell unit." It appears the "concrete channel" denoted in yellow on the map in the former refinery contact area is the same as the "concrete dikes" described in Attachment 1. It explains that the units are within these concrete dikes. The term "within" indicates that the units may be fully enclosed. However, these concrete channels are not shown as fully enclosed. If the concrete dikes (denoted as

"concrete channels" on the map) are actually fully enclosed, then the map must be revised to show any such correction.

Response From BCTL:

A new Attachment 10[A3] Structural Controls- Dikes and Curbs, is included to illustrate the corresponding dikes inside the Tank Farm area, and the dikes and curbs located inside the Refinery.

EPA Comment or Request:

Outfall 002: Form 2F, Item IV.C for Outfall 002 describes existing structural controls. It indicates that the East and West Channels have sediment traps and gabions to retain solids and promote oxygenation. and leaf retention structures and retention basins in erosion prone areas to reduce TSS reaching the Flood Control Pond. In the prior deficiency letter, EPA indicated that the map must be revised to depict these structural control measures. The narrative response in Attachment 1 states: "Structural controls presented on Attachment 10[A] maps". The map in Attachment 10[A] shows the non-contact areas in the East and West Channels which discharge through Outfall 002. However, this map again does not depict the "sediment traps and gabions" or the "leaf retention structures and retention basins". Therefore, the map must be revised to depict and denote these structural control measures for Outfall 002 including the East Channel sediment trap, East Channel gabion, West Channel sediment trap, West Channel gabion, leaf retention structures and retention basins. Also, the response refers to "Attachment 10[A] maps" in the plural. EPA only received a single map in Attachment 10[A].

Response From BCTL:

A new Attachment 10[A4] named Outfall 002 Non-Contact Storm Water Structural Controls is included to illustrate the location of structural controls such as sediment traps, gabions, screen bar and channels.

Page 12 and 13 of 13 Application Form 2F (Outfall 001 and 002)

EPA Comment or Request:

e. The instructions require the map to depict areas where pesticides, herbicides, soil conditioners, and fertilizers are applied. In the prior deficiency letter, EPA indicated that the map must be revised to depict and denote any such areas for Outfall 002. The narrative response in Attachment 1 states: "Map has been updated to present these areas". Application Form 2F, Item IV.B for Outfall 001 specifies that "Only herbicides are applied at a frequency of 3 months at perimeter fence, tanks and docks pipe rack, main substation vard and around basins using spraying method on sunny days, and per manufacturer recommendation by a licensed technician." Application Form

2F. Item IV.B for Outfall 002 specifies that "Only herbicides are applied at a frequency of 3 months at perimeter fence, and around basins using spraying method on sunny days, and per manufacturer recommendation by a licensed technician." These statements indicate that there are areas where pesticides and herbicides are applied for both Outfalls. However, EPA could not find any such depiction on the map for the following areas in either the Outfall 001 or Outfall 002 drainage areas: at perimeter fence and main substation vard and around basins (i.e., ballast basin, and tank farm fire basin). Therefore, the map must be revised to depict and denote these areas.

Response From BCTL:

A new Attachment 10 [A5] named Herbicides Application Areas is included to depict and denote these areas.

EPA Comment or Request:

- 2. <u>Item IV.C-</u> The following deficiencies must be addressed:
 - a. Form 2F, Item IV.C requires the applicant to provide the location and description of existing structural control measures to reduce pollutants in storm water runoff. In the prior deficiency letter, EPA indicated that if there are any structural controls separating the contact and non-contact areas, then Item IV.C must be revised to describe the structural control(s) and the location(s). The narrative response in Attachment 1 states: "On the contact areas the former refinery units are located within concrete dikes that would drain into the 3 cell unit." However, these structural controls (i.e. concrete dikes) were not described directly in Item IV.C. Therefore, Item IV.C must be revised to also describe these structural control(s) and the location(s).

Response From BCTL:

Form 2 F, Item IV.C for Outfall 001was amended to better describe the structural controls separating the contact and non-contact areas in the former Refinery. Also a new attachment 10 [A6] named Plant Storm Water Runoff Contact and Non-Contact Areas is included to depict and denote these areas.

EPA Comment or Request:

- 3. <u>VIIC</u> The Form 2F, Item VII.C requires "CAS Number (if available)". For Outfall 001, certain CAS numbers appear incorrect:
 - a. A CAS # of 58553 is reported for "benzoanthracene". EPA could not find a corresponding chemical name associated with this CAS #. EPA found the following CAS #: 56-55-3. Also, EPA could not find the same spelling for this pollutant in Form 2F, Table 2F-2, 2F-3 or 2F-4. The application must use the same name and spelling as shown in the applicable Form 2F, Table 2F-2, 2F-3 or 2F-4.

- b. A CAS # of98-75-3 is reported for "nitrobenzene". EPA could not find a corresponding chemical name associated with this CAS #. EPA found the following CAS #: 98-95-3;
- c. A CAS # of 50-37-8 is reported for "benzopyrene". EPA could not find a corresponding chemical name associated with this CAS #. EPA found the following CAS #: 50-32-8. Also, EPA could not find the same spelling for this pollutant in Form 2F, Table 2F-2, 2F-3 or 2F-4. The application must use the same name and spelling as shown in the applicable application Form 2F, Table 2F-2, 2F-3 or 2F-4;
- d. A CAS # of 59-50-7 is reported for "mp cresol". This value corresponds to the chemical name m- cresol. Also, EPA could not find either "m-cresol" or "mp cresol" in Form 2F, Table 2F-2, 2F-3 or 2F-4. The name "mp cresol" must be revised to show the same name and spelling as shown in the applicable Form 2F, Table 2F-2, 2F-3 or 2F-4;
- e. A CAS # of 74-90-8 is reported for "cyanide". This value corresponds to the chemical name hydrogen cyanide;
- f. A CAS # of 108-38-3 is reported for "mp xylene". This value corresponds to the chemical name m- xylene. Also, EPA could not find either "m-xylene" or "mp xylene" in Form 2F, Table 2F-2, 2F-3 or 2F-4. The name "rnp xylene" must be revised to show the same name and spelling as shown in the applicable Form 2F, Table 2F-2, 2F-3 or 2F-4.

Response From BCTL:

Form 2 F, Item VII.C, for Outfall 001 was changed to include the right CAS numbers and names.

EPA Comment or Request:

4. <u>Item X</u> - When re-submitting the revised application information, the certification in Item X for Outfalls 001 and 002 must be re-signed and dated.

Response From BCTL:

Application Form 2F for Outfall 001 and 002 were re-signed and dated.

Buckeye Caribbean Terminals LLC Yabucoa Puerto Rico NPDES Permit Application

Attachment 2 - Explanatory Memorandum

On December 10, 2010 Buckeye Caribbean Holding Limited acquired from Shell Caribbean Investment Limited all share of stocks of Shell Chemical Yabucoa, Inc. (a corporation organized under the Puerto Rico Corporations Law). Upon the acquisition of the stocks, that same day, the corporate name of Shell Chemical Yabucoa, Inc. was changed to Buckeye Caribbean Terminals, Inc. Subsequently, on December 17, 2010, pursuant to Article 19 of the Puerto Rico Corporations Law, Buckeye Caribbean Terminals, Inc. filed for a conversion into a limited liability corporation (Buckeye Caribbean Terminals LLC). This conversion became effective on January 2, 2011.

Buckeye Caribbean Terminals LLC (BCTL) operates a Petroleum Bulk Storage Terminal (PBST) complex at State Road 901 Km 2.7 Yabucoa Puerto Rico. As such, it leases fuel storage capacity and receives customer's imports of fuel components and finished fuel products for blending and sale of gasoline, diesel, jet fuel, kerosene and fuel oil for the Puerto Rico and regional markets. The facility also has the capacity to receive, load and store crude oil. Products handled at the PBST are typically received by marine vessels at the terminal's loading docks. A small volume of product is delivered to the PBST by cargo truck.

The products are transferred via product piping from the marine vessels at the vessel dock or from cargo trucks to bulk storage aboveground tanks located within the terminal's tank farm. The PBST operates a tank farm, two docks (marine dock and barge dock), a truck loading rack and wastewater treatment units. The PBST has a total storage capacity of 4,624,863 bbls with an average storage volume of 2,857,178 bbls. The average daily throughput is around 70,000 bbl/day. The largest tank has a capacity of 315,000 bbl. The intent is for Buckeye to supply all of their customer products in Puerto Rico from the truck loading rack.

The marine dock operates 24 hours/day, 7days/week. The dock is equipped with one tanker dock, one barge dock and one tug dock. The tanker dock is equipped with eight (8) marine steel loading arms used to load and unload product from the marine vessels. The barge dock is equipped with two (2) steel loading arms used to load and unload product from marine barges.

The product transfers are mainly made via the Tank Farm tanks to the Truck Loading rack, where the product is loaded into tank trucks for transportation. The loading rack used for gasoline has vacuum assisted vapor recovery. It can also be used to load heavier products such as diesel fuel, kerosene, jet fuel and fuel oils.

The refinery process units were shut down in July 2008. The units were de-inventoried, removing all the product within them, decontaminated with nitrogen, steams and water preserved. The refinery is scheduled to be demolished within two to four years.

At this stage the initial removal will consist of the refinery units and it is expected that around 10,000 gpd of decontamination water may be generated. This stream would contain traces of the residues that could not be removed in the initial decommissioning. The product streams would be treated within the existing wastewater treatment plant prior to disposal. The potential Parameters to be present have already been considered in the current NPDES forms and the water contribution is estimated in the balance.

The other associated parameters would be the potential increase of solids and debris within the demolition areas. As such proper pollution prevention and erosion control activities will be implemented to minimize the discharge of pollutants into the waters. Any contact runoff will reach the 3 cell separator and the rest of the WWTP, similar to the current operation. This consideration has also been included on the NPDES application.

Once the refinery units removal is complete then the utilities piping and concrete slabs will be removed and disposed of per regulatory requirements. Any waters generated during this step will be treated in the wastewater treatment plant.

The intention is to close the wastewater treatment plant once the demolition is completed and all of the logistics involved with the closure can be identified and worked out. A timely NPDES application that includes a closure plan for the existing wastewater plant will be prepared at least 180 days prior to the onset of closure activities. We understand that closure activities cannot commence until an NPDES permit based on the updated activities is issued from EPA.

Treated Discharges from Outfall 001

Due to the overall layout of the facility and the distance between the closed refinery and the Tank Farm, about one mile apart there are three (3) Wastewater Treatment Facilities (WWTFs). The WWTFs include the following:

- 1. The Wastewater treatment plant (WWTP) at the closed refinery area.
- 2. API separator and WEMCO for the Tank Farm
- 3. DAVCO unit for sanitary wastewater.

The WWTP located at the closed refinery is in operation and is treating storm waters from the contact areas of the closed refinery, wash water from refinery foot print area, water drained from storage tanks from the tank farm area, water from firefighting drills and other discharges such as condensate from air conditioning units and laboratory wash water, covered under current NPDES Permit PR0000400. To process these water streams, the waste water treatment unit in the refinery area incorporates primary treatment for oil recovery with a 3-Cells Separator and 2-Cells Separator (when refinery was in operation the 2-Cell received all the refinery process waters), and secondary treatment facilities which includes biological treatment of waters in a complete mixing activated sludge system. The stream coming from the biological treatment passes through a clarifier unit for further separation of solids and organic materials. Settled sludge at the Clarifier is

returned to the activated sludge biological treatment basins to maintain the activated sludge plant operational balance. Excess or waste sludge is sent to the digester basin for stabilization. Digested sludge is then processed in sludge drying beds for disposal offsite. Sanitary contributions from the plant administrative buildings and a septic tank in the tank farm area are processed by a DAVCO package plant with an extended aeration setup, including clarifier and a digester tank. Any excess solids generated are also processed in the sludge drying beds.

Clarified water effluent mixes with effluent water from a sanitary process unit (DAVCO) and discharge into the Tank Farm Fire Basin.

The Tank Farm area is divided in two sections (east and west corridors). Both corridors are equipped with a dedicated 2-Cell API separator used to manage storm water collected in the tanks' dikes and north pipe rack dike. The north pipe rack dike also receives a small runoff contribution from the Olein facilities. These Olein waters are solely composed of non-contact storm runoff, no process waters or contact storm runoff reach this discharge. Waters from fire drills, condensate from air conditioning units and from fire hydrants flushing also contribute to discharge 001, and are managed through the two 2-Cell API separator units.

Storm water from both 2- Cell API separators (east and west) are pumped to a depurator unit (WEMCO) which employs mechanically –induced air flotation to separate solids, oils or organic materials from the stream. From the WEMCO unit, treated storm water is pumped to the Ballast Basin and then to the Fire Water Basin. Certain storm runoff waters from the dock area are routed to the Ballast Basin. The treated storm waters in the Fire Basin are combined with the effluent from the WWTP treated water which overflows to the Outfall Basin. Samples are collected at outfall 001 authorized discharge sample point for analysis according to the NPDES permit PR0000400. The treated waters are then discharged to the Yabucoa Bay through the authorized outfall 001.

Outfall 002

Storm water runoff from the non-contact areas are collected in a Flood Control Pond (FCP). Storm water reaches the FCP through two distinct channels: the west and the east channels. Storm waters in the FCP can be pumped into the wastewater treatment plant or discharged through authorized Outfall 002. Several control devices, such as rock gabion structures fixed to the channels, sediment traps at parking lot and warehouse yard, and leaf retention structures around the east channel, are installed in the channels and areas of the site to minimize the accumulation of solids and debris. . Surface water infiltration from Lajas Creek/Caño Santiago, as well as air conditioner water condensate contribute to discharge 002.

Previously, there was a normally closed connection between the 3-cell separator and the FCP. This connection was capped off in August 2012. The intent of the connection was to protect life and equipment within the refinery area in case of major flooding. Since there are no operations within the refinery there is no need to prevent the flooding of the area.

Please print or type in the unshaded areas only.

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Form Approved. OMB No. 2040-0086. Approval expires 3-31-98.

FORM 2C NPDES



U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

I. OUTFALL LOCATION							ALM MERCHANISM TO THE STATE OF
For each outfall, list the	latitude and l	ongitude of its	s location to t	he nearest 15	seconds and	the name of	f the receiving water.
A. OUTFALL NUMBER		B. LATITUDE		С	LONGITUDI	Ξ .	
(list)	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
001	18.00	3.00	1.00	65.00	49.00	21.00	Yabucoa Bay
					14)	V .	
						а —	
				ff 19			* * .

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUT-	2. OPERATION(S) CON	TRIBUTING FLOW	3. TREATMENT	y	
FALL NO. (list)	a. OF LIVATION (11st)	b. AVERAGE FLOW (include units)	a. DESCRIPTION		DES FROM
001	Tanks Drains	0.000010 MGD	3-Cell Separator Unit	1-M	
	Tanks Drains	0.0000050 MGD	2-Cell Unit 75 ft L 35 ft W @ 0.4 kgpd 11.8 h RT	1-M	
	Laboratory Washwaters	0.0000050 MGD	2-Cell Unit 75 ft L 35 ft W @ 0.4 kgpd 11.8 h RT	1-M	
		2 0			
001	Future Demolition Washwaters	0.005000 MGD	2-Cell Unit 75 ft L 35 ft W @ 0.4 kgpd 11.8 h RT	1-M	38
	(these waters are not currently				
	discharged but the parameters				
	believe present are already				
001	considered in the applicaction)				
		*		ar a	
	·		2 2		
	-			şi	
001	Storm water runoff from contact area	0.098000 MGD	3 Cell Separator Unit	1-M	
	of former refinery.				
	Flood Control Pond Runoff sent for	0.058000 MGD	2 Equalization Tanks @ 90 ft diameter each 0.06 MGD Capacity 57.1 h retention time	3-E	0 0
	biological treatment.			< 6	
001		P a			8 %
				10	
	Pavement washwaters.	0.000600 MGD	3 Cell Separator Unit	1-M	140
	Firefighting Drills.	0.000160 MGD	3 Cell Separator Unit	1-M	
001	Demolition washwaters	0.005000 MGD	3 Cell Separator Unit	1-M	
	(this is a future discharge. The	F 2			
	parameters believed presnet are			×	
	parameters consires in the applicati				

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Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

2C NPDES



U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

For each outfall, list the A. OUTFALL NUMBER		B. LATITUDE					ine receiving water.
(list)					LONGITUDE		D 05050 W44550
(1)31/	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
001	18.00	3.00	1.00	65.00	49.00	21.00	Yabucoa Bay
·				2:	70		8.0
9				×		*	
*				× .			
		e la company		- 8			

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUT-	2. OPERATION(S) CON	TRIBUTING FLOW	3. TREATMENT		
FALL NO. (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION		DES FROM
			From previous page: 3 cell and 2 cell pretreatment		
	9 17 ×		Activated Sludge Water Treatment:	9 g	
			2 Equalization Tanks @ 90 ft diameter each 0.06 MGD Capacity 57.1 h retention time	3-E	
			2 Activated Sludge Aeration Basins 255 ft L 80ft W per basin 0.60 MGD 61 h RT	3 - A	
			Clarifier 80 ft daiameter 1.19 MGD 7.6 h RT	1-H	
	No.		Sludge Management:		
			Aerobic Digestion Basin 280 ft L 85 W @ 200 gpm 5 days solids retention time	5-A	
æ	2		Sludge Drying Beds	5-H	
p			Solids from Beds Offsite Landfill	5-Q	
			Discharge for Fire Basin:		
			Fire Water Basin 265 ft L 185 W 129 MGD 66.2 h RT	1-H	
			4.		а е
	Sanitary Wastewater	0.024300 MGD	DAVCO Package Activated Sludge System:		
			Grinding and Communition	1-L	
			Activated sludge with clarifier, Digestion and Disinfection 28 ft L 11 ft W 0.02 MGD	3-A	2 - F
			Solids from digester sent to Sludge Drying Beds (previous page)	5-H	
			Discharge to Fire Basin (described in previous page)		
					-10
	E	5			
,	Olein storm runoff site contribution	0.000400 MGD	Tank Farm API and WEMCO Treatment:		
	Storm runoff from Dock and Tank Farm	0.360000 MGD	East 2 cell API separator: 79 ft L 12 ft W 0.05MGD 59.6 h RT		1-M
	Fire drill waters	0.000160 MGD	West 2 cell separator 79 ft L 21 ft W 0.05 MGD		1-M
	Fire hydrants flushings	0.000100 MGD	Inducted Air Flotation Unit 0.11 MGD 24.5 h RT		1-H
	Air conditioner condensates	0.000006 MGD	Ballast Basin 275 ft L 185 ft W		1-H

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110000580915

Form Approved. OMB No. 2040-0086. Approval expires 3-31-98.

FORM 2C NPDES

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U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

I. OUTFALL LOCATION	10000				1000		
For each outfall, list the	latitude and l	longitude of it	s location to t	the nearest 15	seconds and	the name of	f the receiving water.
A. OUTFALL NUMBER		B. LATITUDE			. LONGITUDE		
(list)	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	D. RECEIVING WATER (name)
001	18.00	3.00	1.00	65.00	49.00	21.00	Yabucoa Bay
		*					
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			je .				
II. FLOWS, SOURCES C							
labeled to correspond	outfalls. If a v	water balance	e cannot be de	em B. Constru	uct a water hal	lance on the	perations contributing wastewater to the effluent, and treatment units line drawing by showing average flows between intakes, operations, ities), provide a pictorial description of the nature and amount of any

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUT-	2. OPERATION(S) CONTR	RIBUTING FLOW	3. TREATMENT		
FALL NO. (list)	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION		DES FROM
			WWTP and DAVCO package plant discharge to Tank Farm Fire Basin		
			Dock Area discharges to Ballast Basin		
			Ballast Basin discharges to Tank Farm Fire Basin		
			Tank Farm Fire Basin discharges to Outfall Basin 002		
	*	5	Outfall Basin: 275 ft L 180 W @ 129 mgd 38. 3 h RT	1-H	
			Outfall pipe : an uderground piping run dischrges 2,600 ft into Yabucoa Bay	4 - B	2
			Dischrges to an Outfall Diffuser	4 - H	
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C. Except for st		leaks, or sp plete the follo		of the d	ischarges d		Items II-A or B in		sonal?				
					Ï	3. FRI	EQUENCY			4. FLOV	V		
1. OUTFALL NUMBER (list)	* ,		PERATION(s) RIBUTING FLO (list)	w		a. DAYS PER WEEK (specify average)		a. FLOW RA	2. MAXIMUM	B. T (sp	OTAL V ecify with	2. MAXIMU	C. DURATION
		1						AVERAGE	DAILY	AVERA	GE	DAILY	(m.mys)
III. PRODUCTIO		ne limitation	promulaated	hv EP	A under Se	ction 304 of	the Clean Water	Act apply to you	ur facility?				
B. Are the limita	YES (comp	lete Item III-	B)				NO (go to Sec	tion IV)					
C. If you answe applicable ef	YES (comp	lete Item III- o Item III-B.	C)	ntity wh	ich represe		NO (go to Sed	tion IV)		pressed in	the te	rms and u	nits used in the
	galac	Jiii O, dild iii				RODUCTION		7		1			
a. QUANTITY	PER DAY	b. UNITS	OF MEASU				ION, PRODUCT (specify)	MATERIAL, ET	c.	- 2		outfall num	
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permit condit	required uipment or ions, admin	practices of	r any other ei enforcement	nvironm	ental progr	ams which n	implementation may affect the disce schedule lette	charges describ rs, stipulations,	ed in this anni	ication? Ti	his incl	udes but i	s not limited to
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Refer to Cons Appendix 11.	sent Deci	ree in	a. NO.	b. SOU	RCE OF DIS	I	mprovements ecent progre ppendix 12.				a. REC	QUIRED	b. PROJECTED
		5 g				. Se				2			
B. OPTIONAL: \(\) discharges) ye construction.	You may a	ittach addit ve underwa	ional sheets y or which yo	descril	oing any ao Indicate w	dditional wa	ter pollution con program is now	trol programs (or other environmed, and ind	onmental licate your	<i>project</i> actual	ts which m	nay affect your
	MARK "X" II	DESCRIP	TION OF AL	OITIO	NAL CONTE	ROL PROGE	RAMS IS ATTAC	HED					

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/. INTAKE AND EFFLUENT CHARAC	TERISTICS		
A, B, & C: See instructions before pro	oceeding – Complete one set of tables for ea	ch outfall - Annotate the outfall number in	the space provided.
	nd V-C are included on separate sheets nun the pollutants listed in Table 2c-3 of the ins		to believe is discharged or may be discharged
from any outfall. For every pollutan	t you list, briefly describe the reasons you be	elieve it to be present and report any analy	tical data in your possession.
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
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relation to your discharge within the last 3 y YES (identify the test(s) and a		NO (go to Section VIII)	н ⁷ в
TES (identify the test(s) and a	escribe men purposes below)	W 140 (go to section viti)	
			x * :
*			
II. CONTRACT ANALYSIS INFORMATIC	N A STATE OF THE S	MEAN COLONIA	
ere any of the analyses reported in Item \	/ performed by a contract laboratory or consulting fi	rm?	8
	and telephone number of, and pollutants analyzed by,	NO (go to Section IX)	
each such laboratory or f	îrm below)	3	D POLITITANTS ANALYZED
		C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
each such laboratory or j A. NAME nvironmental Quality	îrm below)	C. TELEPHONE	
each such laboratory or j A. NAME nvironmental Quality	B. ADDRESS PO Box 11485	C. TELEPHONE (area code & no.)	(list) All parameters included on
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each such laboratory or f A. NAME Invironmental Quality aboratories CERTIFICATION certify under penalty of law that this docu ualified personnel properly gather and e lirectly responsible for gathering the inform	ment and all attachments were prepared under my valuate the information submitted. Based on my instant, the information submitted is, to the best of new prepared in the information submitted is.	C. TELEPHONE (area code & no.) (787) 288-6420 direction or supervision in accordant of the person or persons when knowledge and belief, true, accurately accurately the company of the person or persons when knowledge and belief, true, accurately the company of the person or persons when knowledge and belief, true, accurately the company of the person or persons when the company of the person of the perso	(list) All parameters included or this permit application. The parameters included or this permit application.
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EPA Form 3510-2C (8-90)

EPA I.D. NUMBER (copy from Item 1 of Form 1) 110000580915 PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information

OUTFALL NO.

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

on separate sheets (use the same format) instead of completing these pages

SEE INSTRUCTIONS.

b. NO. OF ANALYSES 4. INTAKE (optional)
a. LONG TERM
AVERAGE VALUE (2) MASS (1) CONCENTRATION VALUE VALUE VALUE b. MASS kg/d kg/d kg/d kg/d kg/d STANDARD UNITS 3. UNITS (specify if blank) ပ ပ a. CONCEN-TRATION PART A -You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. mg/1mg/1mg/1mg/1mg/1 MGD d. NO. OF ANALYSES Н Н Н Н (2) MASS c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION VALUE VALUE VALUE 2. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) MAXIMUM (2) MASS (1) CONCENTRATION MINIMUM VALUE VALUE VALUE MAXIMUM 8.5 20.55 154.05 a. MAXIMUM DAILY VALUE (2) MASS 54 33.89 0.154 58. 0.288 25.4 (1) CONCENTRATION 22.8 13.2 90.0 MINIMUM 8.5 09 ω VALUE VALUE VALUE c. Total Organic Carbon a. Biochemical Oxygen Demand (BOD) b. Chemical Oxygen Demand (COD) d. Total Suspended Solids (735) 1. POLLUTANT e. Ammonia (as N) g. Temperature (winter) h. Temperature (summer) f. Flow (TOC) Hd :

Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either esuits of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide the results of a provide for additional data and acquirements. PART B -

dnar	Illalive uak	a or an expir	מומווסוו טו וווכוו אוכפינ	ance in your a	ischarge, complete	Ulle lable IOI e	quantitative data or an explanation of their presence in your discharge. Complete one table for each outlait, See the instructions for additional details and requirements.	IIISII UCIIOIIS IOI	additional neta	ills and requirem	ens.	0.40		
	2. MARK "X"	RK "X"		22	3.1	3. EFFLUENT				4. UNITS	LS.	5. INTA	5. INTAKE (optional)	8
1. POLLUTANT				a	b. MAXIMUM 30 E	DAY VALUE	b. MAXIMUM 30 DAY VALUE c. LONG TERM AVRG. VALUE	'RG. VALUE				a. LONG TERM AVERAGE	VERAGE	
AND	æ	Q	a. MAXIMUM DAILY VALUE	LY VALUE	(if available)	ele)	(if available)	le)		14101400	b	VALUE		- C
(if available)	BELIEVED	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	a. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	(1) CONCENTRATION	(2) MASS	D. NO. OF ANALYSES
a. Bromide (24959-67-9)	21 ₂₂	×		2			e Ng				. 6	12		
b. Chlorine, Total Residual	X		<0.01	0.025			٠		1	mg/l	kg/d	25		
c. Color	X		40	102.62		8			1	PtCo	kg/d			
d. Fecal Coliform	п	×	÷			. 2				zi X	er la		5	E .
e. Fluoride (16984-48-8)	X	¥	0.511	1.31					1	mg/l	kg/d	v	12	2
f. Nitrate-Nitrite (as N)	X		0.15	0.38			2		1	mg/l kg/d	kg/d		13	

EPA Form 3510-2C (8-90)

PAGE V-1

CONTINUE ON REVERSE

5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION b. MASS kg/d kg/d kg/d kg/d 4. UNITS a. CONCEN-TRATION mg/1mg/1mg/1mg/1d. NO. OF ANALYSES Н c. LONG TERM AVRG. VALUE (if available) (2) MASS (1) CONCENTRATION b. MAXIMUM 30 DAY VALUE (if available) (2) MASS (1) CONCENTRATION a. MAXIMUM DAILY VALUE (2) MASS 0.0051 4.88 2.31 (1) CONCENTRATION <0.002 0.133 06.0 1.9 BELIEVED ABSENT ITEM V-B CONTINUED FROM FRONT 2. MARK "X" BELIEVED F g. Nitrogen, Total Organic (as (4) Radium 226, Total 1. POLLUTANT AND CAS NO. (if available) i. Phosphorus (as P), Total (7723-14-0) (1) Alpha, Total Radioactivity (2) Beta, Total k. Sulfate (as SO₄) (14808-79-8) o. Aluminum, Total (7429-90-5) m. Sulfite (as SO₁) (14265-45-3) n. Surfactants (3) Radium, Total h. Oil and Grease i. Sulfide (us S)

b. NO. OF ANALYSES

(2) MASS

PAGE V-2

CONTINUE ON PAGE V-3

kg/d

mg/1

0.27

0.104

v. Manganese, Total (7439-96-5)

w. Tin, Total (7440-31-5)

s. Iron, Total (7439-89-6) t. Magnesium, Total u. Molybdenum, Total (7439-98-7)

kg/d

mg/1

99.0

0.26

p. Barium, Total (7440-39-3)

q. Boron, Total (7440-42-8) r. Cobalt, Total (7440-48-4) EPA Form 3510-2C (8-90)

Total (7440-32-6)

k. Titanium,

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER 110000580915

fractions that apply to your industry and for ALL toxic metals, cyanides, it you are not required to mark column 2-a (secondary industries). The column 2-b for any pollutant, you must provide the results of a least one analysis for that pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you work or have reason to believe is present. Mark "X" in column 2-b for each pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant are column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant are column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant are column 2b for any pollutant, you must provide the results of at least one analysis for each of these pollutant are column 2b for any pollutant are pollutant are column 2b for any pollutant are column 2b for any pollutant are pollutant are column 2b for any pollutant are pollutant a PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS CONTINUED FROM PAGE 3 OF FORM 2-C

addition	al details ar	additional details and requirements.	ents.			3 EFFLUENT	ENT				4. UNITS	TS	5. INTAKE (optional)	(lonoitao)	
	ď	2	c	a. MAXIMUM DAILY VALU	ILY VALUE	b. MAXIMUM 30 DAY VALUE (if available)	ALUE	c. LONG TERM AVRG.	AVRG.				a. LONG TERM AVERAGE VALUE		
CAS NUMBER (if available)	TESTING	BEL	BELIEVED ABSENT	_	(2) MAS	(1) CONCENTRATION (2) N	(2) MASS ((1) CONCENTRATION (ASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	(1) CONCENTRATION (2)	ASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS	E, AND TO	TAL PHENC	STC												
1M. Antimony, Total (7440-36-0)		×		<0.00>	0.021	5				1	mg/1*	kg/d			
2M. Arsenic, Total (7440-38-2)		×	is.	0.0013	0.0033	В			2	1	mg/l	kg/d			
3M. Beryllium, Total (7440-41-7)			×											4	
4M. Cadmium, Total (7440-43-9)		×		<0.002	0.0051					П	mg/1*	kg/d			
5M. Chromium, Total (7440-47-3)		X		<0.002	0.0051	×				1	mg/l	kg/d			
6M. Copper, Total (7440-50-8)		X		<0.005	0.013					1	mg/1*	kg/d			
7M. Lead, Total (7439-92-1)	,	×		<0.0008	0.0020			- 20		1	mg/1*	kg/d	24		
8M. Mercury, Total (7439-97-6)		×	a'	0.0127	0.033		8	20 20 20		1	mg/l	kg/d			
9M. Nickel, Total (7440-02-0)		×		0.0088	0.0022	a la		9		1	mg/l	kg/d			
10M. Selenium, Total (7782-49-2)		×		<0.001	0.0026					1	mg/1*	kg/d	ts s		
11M. Silver, Total (7440-22-4)		×		<0.002	0.0051					1	mg/1*	kg/d			
12M. Thallium, Total (7440-28-0)	a A	X		<0.001	0.0011					1	mg/1*	kg/d	22		
13M. Zinc, Total (7440-66-6)		×		<0.005	0.0026			e e		1	mg/1*	kg/d			
14M. Cyanide, Total (57-12-5)	9	×		0.0013	0.013					Н	mg/l	kg/d			
15M. Phenols, Total		×		0.012	0.031					1	mg/l	kg/d			
DIOXIN			4			7									
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6)			X	DESCRIBE RESULTS	JLTS				*			٠	a a		
The state of the s	-	-		And in case of the last of the	-				ON STREET, SALES						

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PAGE V-3

CONTINUE ON REVERSE

a. LONG TERM AVERAGE VALUE (1) CONCENTRATION b. MASS kg/d 4. UNITS a. CONCENug/1** d. NO. OF ANALYSES (1) CONCENTRATION (2) MASS c. LONG TERM AVRG. VALUE (if available) b. MAXIMUM 30 DAY VALUE (if available) (2) MASS 3. EFFLUENT (1) CONCENTRATION a. MAXIMUM DAILY VALUE (2) MASS 0.0003 TESTING BELIEVED BELEVED (1)
REQUIRED PRESENT ABSENT CONCENTRATION <0.3 GC/MS FRACTION - VOLATILE COMPOUNDS 2. MARK "X" CONTINUED FROM THE FRONT 7V. Chlorobenzene (108-90-7) 17V. 1,2-Dichloro-propane (78-87-5) 18V. 1,3-Dichloro-15V. 1,2-Dichloro-ethane (107-06-2) AND CAS NUMBER 1. POLLUTANT 16V. 1,1-Dichloro-ethylene (75-35-4) 14V. 1,1-Dichloro-ethane (75-34-3) 9V. Chloroethane (75-00-3) 13V. Dichloro-difluoromethane (75-71-8) 2V. Acrylonitrile (107-13-1) 8V. Chlorodi-bromomethane (124-48-1) 12V. Dichloro-bromomethane (75-27-4) (if available) 4V. Bis (Chloromethyr) Ether (542-88-1) 10V. 2-Chloro-ethylvinyl Ether (110-75-8) 11V. Chloroform (67-66-3) 5V. Bromoform (75-25-2) 1V. Accrolein (107-02-8) 3V. Benzene (71-43-2) 6V. Carbon Tetrachloride (56-23-5)

b. NO. OF ANALYSES

(2) MASS

5. INTAKE (optional)

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21V. Methyl Chloride (74-87-3) 20V. Methyl Bromide (74-83-9)

PAGE V-4

CONTINUE ON PAGE V-5

kg/d

ug/1**

0.0002

0 ٥°

19V. Ethylbenzene (100-41-4)

propylene (542-75-6)

b. NO. OF ANALYSES CONTINUE ON REVERSE 5. INTAKE (optional) (1) CONCENTRATION (2) MASS a. LONG TERM AVERAGE VALUE b. MASS kg/d kg/d kg/d kg/d kg/d 4. UNITS a. CONCEN-TRATION ug/1** ug/1** ug/1** ug/1** ug/1** d. NO. OF ANALYSES Н Н H (1) CONCENTRATION (2) MASS c. LONG TERM AVRG. VALUE (if available) 3. EFFLUENT
b. MAXIMUM 30 DAY VALUE
(if available) (2) MASS (1) CONCENTRATION 0.0002 0.0002 0.0013 a. MAXIMUM DAILY VALUE (1) CONCENTRATION (2) MASS 0.001 0.0003 <0.2 <0.3 <1.2 <0.2 <1 GC/MS FRACTION - VOLATILE COMPOUNDS (continued) C. BELIEVED ABSENT BELIEVED E GC/MS FRACTION - ACID COMPOUNDS 2. MARK "X" a. TESTING REQUIRED CONTINUED FROM PAGE V-4 11A. 2,4,6-Trichloro-phenol (88-05-2) AND CAS NUMBER (if available) 27V. 1,1,1-Trichloro-ethane (71-55-6) 28V. 1,1,2-Trichloro-ethane (79-00-5) 1A. 2-Chlorophenol (95-57-8) 23V. 1,1,2,2-Tetrachloroethane (79-34-5) ethylene (127-18-4) 31V. Vinyl Chloride (75-01-4) 7A. 4-Nitrophenol (100-02-7) 22V. Methylene Chloride (75-09-2) 26V. 1,2-Trans-Dichloroethylene (156-60-5) 29V Trichloro-ethylene (79-01-6) 1. POLLUTANT 2A. 2,4-Dichloro-phenol (120-83-2) 3A. 2,4-Dimethyl-phenol (105-67-9) 4A. 4,6-Dinitro-O-Cresol (534-52-1) 6A. 2-Nitrophenol (88-75-5) 8A. P-Chloro-M-Cresol (59-50-7) 5A. 2,4-Dinitro-phenol (51-28-5) 9A. Pentachloro-phenol (87-86-5) 24V. Tetrachloro-30V. Trichloro-fluoromethane 25V. Toluene (108-88-3) 10A. Phenol (108-95-2) (75-69-4)

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PAGE V-5

b. NO. OF ANALYSES CONTINUE ON PAGE V-7 5. INTAKE (optional) (1) CONCENTRATION (2) MASS a. LONG TERM AVERAGE VALUE kg/d kg/d kg/d b. MASS kg/d 4. UNITS a. CONCENTRATION ug/1** ug/1** ug/1** ug/1** CONCENTRATION (2) MASS ANALYSES H c. LONG TERM AVRG. VALUE (if available) b. MAXIMUM 30 DAY VALUE (if available) (2) MASS (1) CONCENTRATION 0.0002 0.0002 a. MAXIMUM DAILY VALUE 0.0002 0.0002 (2) MASS a. b. c. a. MAXIMUM DAIL
TESTING BELIEVED BELIEVED
REQUIRED PRESENT ABSENT CONCENTRATION <0.2 <0.2 <0.2 7 <0> GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS 2. MARK "X" CONTINUED FROM THE FRONT 14B. 4-Bromophenyl Phenyl Ether (101-55-3) 17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3) 8B. Benzo (ghi)
Perylene (191-24-2)
9B. Benzo (k)
Fluoranthene
(207-08-9) 19B. Dibenzo (a.h) Anthracene (53-70-3) 20B. 1,2-Dichloro-benzene (95-50-1) 21B. 1,3-Di-chloro-benzene (541-73-1) 11B. Bis (2-Chloro-enhy) Ether (111-44-4) 12B. Bis (2-Chloroisopropyl) Ether (102-80-1) 15B. Butyl Benzyl Phthalate (85-68-7) 10B. Bis (2-Chloro-erhoxy) Methane (111-91-1) CAS NUMBER (if available) 2B. Acenaphtylene (208-96-8) 6B. Benzo (*a*)
Pyrene (50-32-8)
7B. 3.4-Benzofluoranthene
(205-99-2) 1B. Acenaphthene (83-32-9) 13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7) 1. POLLUTANT AND 18B. Chrysene (218-01-9) 3B. Anthracene (120-12-7) 16B, 2-Chloro-4B. Benzidine (92-87-5) 5B. Benzo (*a*) Anthracene (56-55-3) naphthalene (91-58-7)

EPA Form 3510-2C (8-90)

b. NO. OF ANALYSES 5. INTAKE (optional) (1) CONCENTRATION (2) MASS a. LONG TERM AVERAGE VALUE kg/d kg/d b. MASS 4. UNITS a. CONCENTRATION ug/1** ug/1** CONCENTRATION (2) MASS ANALYSES Н c. LONG TERM AVRG. VALUE (if available) b. MAXIMUM 30 DAY VALUE (if available) (2) MASS 3. EFFLUENT (1) CONCENTRATION 0.0002 0.0002 a. MAXIMUM DAILY VALUE TESTING BELIEVED BELIEVED (1)

REQUIRED PRESENT ABSENT CONCENTRATION (2) MASS <0.2 <0.2 GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued) 2. MARK "X" CONTINUED FROM PAGE V-6 30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7) 29B. Di-N-Octyl Phthalate (117-84-0) AND CAS NUMBER 22B. 1,4-Dichloro-benzene (106-46-7) 23B. 3,3-Dichloro-benzidine (91-94-1) 26B. Di-N-Butyl Phthalate (84-74-2) 33B. Hexachlorobenzene (118-74-1) 34B. Hexachloro-butadiene (87-68-3) 24B. Diethyl Phthalate (84-66-2) 37B. Indeno (1,2,3-cd) Pyrene (193-39-5) 40B. Nitrobenzene (98-95-3) 41B. N-Nitro-sodimethylamine (62-75-9) 42B. N-Nitrosodi-N-Propylamine (621-64-7) 31B. Fluoranthene (206-44-0) 27B. 2,4-Dinitro-toluene (121-14-2) 28B. 2,6-Dinitro-toluene (606-20-2) 35B. Hexachloro-cyclopentadiene (77-47-4) 39B. Naphthalene (91-20-3) 1. POLLUTANT 38B. Isophorone (78-59-1) 36B Hexachloro-ethane (67-72-1) (if available) 32B. Fluorene (86-73-7) 25B. Dimethyl Phthalate 131 -11-3)

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PAGE V-7

CONTINUE ON REVERSE

- b. NO. OF ANALYSES CONTINUE ON PAGE V-9 5. INTAKE (optional) (1) CONCENTRATION (2) MASS a. LONG TERM AVERAGE VALUE b. MASS 4. UNITS (1)
CONCENTRATION (2) MASS ANALYSES TRATION c. LONG TERM AVRG. VALUE (if available) PAGE V-8 b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION (2) MASS 3. EFFLUENT (2) MASS a. MAXIMUM DAILY VALUE TESTING BELIEVED BELIEVED (1)
REQUIRED PRESENT ABSENT CONCENTRATION GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued) 2. MARK "X" GC/MS FRACTION - PESTICIDES CONTINUED FROM THE FRONT EPA Form 3510-2C (8-90) 12P. β-Endosulfan (115-29-7) 44B. Phenanthrene (85-01-8) 13P. Endosulfan Sulfate (1031-07-8) AND CAS NUMBER 1. POLLUTANT 43B. N-Nitro-sodiphenylamine (86-30-6) 11P. α-Enosulfan (115-29-7) 16P. Heptachlor 45B. Pyrene (129-00-0) 46B. 1,2,4-Tri-chlorobenzene (120-82-1) (if available) 6P. Chlordane (57-74-9) 9P. 4,4'-DDD (72-54-8) 10P. Dieldrin (60-57-1) 7P. 4,4'-DDT (50-29-3) 8P. 4,4'-DDE (72-55-9) 14P. Endrin (72-20-8) Aldehyde (7421-93-4) 15P. Endrin 2P. α-BHC (319-84-6) 3P. β-BHC (319-85-7) 5P. 8-BHC (319-86-8) 4P. y-BHC (58-89-9) 1P. Aldrin (309-00-2) (76-44-8)

	4. UNITS 5. INTAKE (optional)	a. LONG TERM AVERAGE VALUE	d. NO. OF a CONCEN- ANALYSES TRATION b. MASS CONCENTRATION (2) MASS ANALYSES												
001		c. LONG TERM AVRG. VALUE (if available)	SS					T. Williams			2			a	
110000580915	3. EFFLUENT	b. MAXIMUM 30 DAY VALUE (if available)	2) MASS					B			1	2	9		
1100		MAXIMUM DAILY VALUE	_												
8-7 ₁₁	2. MARK "X"		BELIEVED BELIEVED PRESENT	TICIDES (continued)	 	/	×	X	×	X	X	X	×	×	
CONTINUED FROM PAGE V-8		1. POLLUTANT AND	CAS NUMBER TESTING (if available) REQUIRED	GC/MS FRACTION - PESTICIDES (continued)	17P. Heptachlor Epoxide	(1024-57-3)	18P. PCB-1242 (53469-21-9)	19P. PCB-1254 (11097-69-1)	20P. PCB-1221 (11104-28-2)	21P. PCB-1232 (11141-16-5)	22P. PCB-1248 (12672-29-6)	23P. PCB-1260 (11096-82-5)	24P. PCB-1016 (12674-11-2)	25P. Toxaphene (8001-35-2)	

EPA I.D. NUMBER (copy from Item 1 of Form 1) OUTFALL NUMBER

EPA Form 3510-2C (8-90)

2F NPDES



U.S. Environmental Protection Agency Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location	1 Alabata									
For each outfall, list t	the latitude and	d longitude of it	ts location to	the nearest 1	seconds an	d the name	of the receiving water	ar.		
A. Outfall Number (list)		B. Latitude			C. Longitude			D. Receiving Water (name)		
001	18.00	3.00	1.00	65.00	49.00	21.00	Yabucoa Bay			
				*				¥		
х х										
		180	11		-			a a		
								1	7	
									X	
II. Improvements					11. 300					

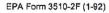
A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

Identification of Conditions,		2. Affected Outfalls	4	4. Final Compliance Date		
Agreements, Etc.	number source of discharge		Brief Description of Project	a. req.	b. proj.	
Refer to Consent Decree in			Improvements have been completed. Refer			
Attachment 11		* V	to most recent progress report			
			(Attachment 12)			
L						
			8			
		E .	*			
				-		

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including; each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.



IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfalf Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
001	15.9 acres (contact area)	19.9 acres	001	18.4 acres (tank farm)	110 acres
				*	
		1	1		1

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

Significant materials stored include crude oil, no. 6 fuel oil, regular and premium gasoline, jet fuel, ultra low sulfur diesel, gasoline components and additives. Treatment of contact runoff of the closed refinery are pretreated on a three cell API separator, followed by biological treatment and discharged to an effluent basin. Runoff from the Tank Parm areas is pretreated by two API separators followed by an Induced Air Flotation (IAF) unit. The effluent is pumped to a Ballast Basin and transfer to a Fire Basin until discharged in the outfall basin. Material Management practices employed to minimized product contact with runoff are: (1)Secondary containments structures on storages tanks, vessels and drums (2)Use of shelters structures to storage all warehouse chemicals and lubricants (3)Dedicated automatic chemical injection system facilities (4)Implementation of Storage Tanks Integrity Inspections (6)Implementation of Tanks level alarms testing (7)Implementation of a SWPPP (Attachment 10 Section 5.0) Materials Loading and Access areas are located at the refinery Warehouse, Truck Loading Rack and RCRA solid waste storage building. Only herbicides are applied at a frequency of 3 months at perimeter fence, tanks and docks pipe rack, main substation yard and around basins using spraying method on sunny days, and per manufacturer recommendation by a licensed technician.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solld or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
	Dike areas at tank farm. Two API separators followed by a IAF unit. Implementation of SWPPP (Att. 10 Sect. 5.0). Sampling and laboratory test internal and external. Contact areas: 3 Cell API Separator, Equalization, Active Sludge, Clarifier, Effl.Basin. More details on Outfall 001 Form 2C (Attachments 4 and 8). The schedule and type of maintenance is described on SWPPP (see Attachment 10, Sect. 5.0) as part of the Operation and Maintenance Inspections. Solid waste from the WWTP and DAVCO is pumped to drying beds and mechanically loaded to containers for offsite disposal. The Refinery process units are located inside concrete curbs which drain to the 3-cell separator.	5-A, 5-Q

V. Nonstormwater Discharges

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall.

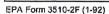
	The state of the s	
Name and Official Title (type or print)	Signature	Date Signed
Hans Rutzen, Operations Director		*

- B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.
- A visual inspection was conducted in 2008 by Eng. Robert Beato and found no dry weather discharges. A similar inspection was conducted in 2012 and found no dry weather discharges ocurring via visula inspection.
- A similar inspection was conducted in 2012 and found no dry weather discharges ocurring via visula inspection [(Refer to Attachment 16 for visual inspection certification)

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

No significant leaks in the past three years.



Continued from Page 2

EPA ID Number (copy from Item 1 of Form 1) 110000580915 - Outfall 001

VII. Discharge Information						
	oceeding. Complete one set of tables for each outfaire included on separate sheets numbers VII-1 and V		pace provided.			
 E. Potential discharges not covered by currently use or manufacture as an int 	analysis - is any toxic pollutant listed in table 2F- ermediate or final product or byproduct?	2, 2F-3, or 2F-4, a substance or a c	omponent of a substance which you			
Yes (list all such pollutants	below)	No (go to Section IX)				
		×				
* =	,					
VIII. Biological Toxicity Testing		And the base have made as any of your	dischange or on a manhing water in			
Do you have any knowledge or reason to relation to your discharge within the last 3	•	No (go to Section IX)	r discharges or on a receiving water in			
1 es (list du such politicaries		E. No (go to occion in)	i i			
•						
IX. Contract Analysis Information	on Called State Control	NEWSCOOL STATE OF STA				
Were any of the analyses reported in Iter	n VII performed by a contract laboratory or consulting	g firm?				
	, and telephone number of, and pollutents h laboratory or firm below)	No (go to Section X)				
A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed			
Environmental Quality Laboratories	PO Box 11485 San Juan PR 00910-1485	(787) 288-2840	All parameters on this application			
g.	,					
	4		96 P			
	· · · · · · · · · · · · · · · · · · ·					
9						
X. Certification						
that qualified personnel property gather a	ocument and all attachments were prepared under and evaluate the information submitted. Based on m ormation, the information submitted is, to the best ing false information, including the possibility of fine	y inquiry of the person or persons wh of my knowledge and belief, true, ac	o manage the system or those persons curate, and complete. I am aware that			
A. Name & Official Title (Type Or Print)		B. Area Code and Phone No.				
Hans Rutzen, Operations	Director	(787) 893-2424				
C. Signature	ys .	D. Date Signed	015			

VII. Discharge information (Continued from page 3 of Form 2F)

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

		um Values ide units)		erage Values ectude units)	Number	0	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes Flow-Weighted Composite		of Storm Events Sampled	Sources of Pollutants	
Oil and Grease	1.90 mg/l	N/A			1.00	Erosion from channles and traffic	
Biological Oxygen Demand (BOD5)	<1 mg/l	8 mg/l			1.00	Vegetation/Debris	
Chemical Oxygen Demand (COD)	59 mg/l	60 mg/l		V .	1.00	Debris	
Total Suspended Solids (TSS)	20 mg/l	13.2 mg/l			1.00	Erosion from channles and traffic	
Total Nitrogen	1.65 mg/l	0.15 mg/l			1.00	Vegetation/Debris	
Total Phosphorus	0.106 mg/1	0.133 mg/l			1.00	Soil	
рН	Minimum 8.50	Maximum 8.50	Minimum	Maximum	1.00	Maintenance	

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

requir	ements.						
	(inclu	um Va lues de units)	Aver (inc	age Values lude units)	Number	,	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants	
						Not Applicable	
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Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfail.

rec	urements. Complet	e one table for each out	fail.			
		um Val ues ede units)		rage Values clude units)	Number	
Pollutant and CAS Number (If available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
56-55-3	<0.2 ug/l	<0.2 ug/l Note 1			1.00	benzo(a)anthracene (Note 2)
207-08-9	<0.2 ug/l	<0.2 ug/l Note 1			1.00	benzofluoroanthene (Note2)
53-70-3	<0.3 ug/l	<0.2 ug/l Note 1			1.00	dibenzofluorantracene (Note 2)
51-28-5	<1.2 ug/l	<1.2 ug/l Note 1			1.00	2, 4 dinitrofenol (Note 2)
91-20-3	<0.2 ug/1	<0.3 ug/l Note 1			1.00	naphtalene (Note 2)
98-95-3	<0.2 ug/l	<0.2 ug/l Note 1			1.00	nitrobenzena (Note 2)
88-75-5	<0.2 ug/l	<0.2 ug/l Note 1			1.00	2 nitrofenol (Note 2)
100-02-7	<1 ug/l	<1 ug/l Note 1			1.00	4 nitrofenol (Note 2)
50-32-8	<0.2 ug/l	<0.2 ug/l Note 1			1.00	benzo(a)pyrene (Note 2)
95-48-7	<0.2 ug/1	<0.2 ug/l Note 1			1.00	o cresol (Note 2)
108-39-4	<0.2 ug/l	<0.2 ug/l Note 1			1.00	m cresol (Note 2)
	24 mg/l	22.8 mg/l Note 1			1.00	TOC (Note 2)
	0.111 mg/l	0.129 mg/lNote 1			1.00	surfactants (Note 2)
74-90-8	0.012 mg/l	0.010 mg/lNote1			1.00	hydrogen cyanide (Note 2)
108-95-2	0.030 mg/l	0.012 mg/lNote 1			1.00	phenols (Note 2)
	<0.01 mg/l				1.00	residual chlorine (Note 2)
71-43-2	<0.3 ug/l	<0.3 ug/l Note 1	20		1.00	benzene (Note 2)
100-41-4	<0.2 ug/l	<0.2 ug/l Note 1			1.00	ethylbenzene (Note 2)
108-88-3	<0.2 ug/l	<0.2 ug/l Note 1			1.00	toluene (Note 2)
108-38-3	<0.5 ug/l	<0.5 ug/l Note 1			1.00	m-Xylenes (Note 2)
95-47-6	<0.2 ug/l	<0.2 ug/l Note 1			1.00	o-Xylenes (Note 2)
	40 PtCO				1.00	color (Note 2)
			-			
						Note 1- Results for these parameter
						were not detected
					2	Note 2 - Erosion from channels and
	V .					traffic and contact stormwaters
				A .	T	

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (In Inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
4/28/11 4/5/11 8/21/12	20 min 30 min 30 min	0.68 in 0.04 in 0.62 in	>72 h	200 gpm (recirculate) 200 gpm (recirculate) 200 gpm (recirculate)	no discharge no discharge no discharge

^{7.} Provide a description of the method of flow measurement or estimate.

A flowmeter is available but was not used during this sampling. The small outfall pump was activated and the effluent recycled within the WWTP system.





U.S. Environmental Protection Agency Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

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I. Outfall Location	(A) (A)							
For each outfall, list t	he latitude and	longitude of	its location to	the nearest 1	5 seconds ar	nd the name	e of the receiving water.	
A. Outfall Number (list)	B. Latitude		C. Longitude			D. Receiving Water (<i>name</i>)		
002	18.00	2.00	57.96	65.00	51.00	14.56	Caño Santiago	
8					V.			
II. Improvements					A CANADA			

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

Identification of Conditions,		2. Affected Outfalls		4. Final Compliance Date	
Agreements, Etc.	number	source of discharge	Brief Description of Project	a. req.	b. proj.
Refer to Consent Decree in			Improvements have been completed. Refer		
Attachment 11			to most recent progress report		
			(Attachment 11)		
•					
		50			

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges



IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
002	46.7 acres	58.4 acres			

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

No significant materials are stored or managed on Outfall 002 drainage areas. Proper management in this area focuses on the removal of accumulated debris in the channels and leaf retention structures and sediment traps to reduce solids reaching the Flood Control Pond (FCP). Implementation of a SWPPP (see Attachmnet 10, Section 5.0). Only herbicides are applied at a frequency of 3 months at perimeter fence, tanks and docks pipe rack, main substation yard and around basins using spraying method on sunny days, and per manufacturer recommendation by a licensed technician.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
002		1-T 4-A

V. Nonstormwater Discharges

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall.

Name and Official Title (type or print)	Signature	Date Signed
Hans Rutzen, Operations Director		

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Eng. Robert Beato from the environmental cosulting firm ERM conducted a visual inspection detecting dry weather discharges in 2008. Repeated the study in 2012. No dry weather discharges observed. In addition, a Conceptual Engineering report was developed (Attachment XXX.

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

No significant spills or leaks in the last three years.



Continued from Page 2

EPA ID Number (copy from Item 1 of Form 1) 110000580915 - Outfall 002

VII. Discharge Information					
	oceeding. Complete one set of tables for each outfall e included on separate sheets numbers VII-1 and VI		space provided.		
	analysis – is any toxic pollutant listed in table 2F-2 ermediate or final product or byproduct?	2, 2F-3, or 2F-4, a substance or a	component of a substance which you		
Yes (list all such pollutants to	pelow)	✓ No (go to Section IX)			
		7	B 4		
2					
VIII. Biological Toxicity Testing I	Data Cara Cara Cara Cara Cara Cara Cara C				
Do you have any knowledge or reason to relation to your discharge within the last 3	believe that any biological test for acute or chronic to years?	oxicity has been made on any of you	ur discharges or on a receiving water in		
Yes (list all such pollutants b	• REDIVIOR M	✓ No (go to Section IX)	5		
·					
IX. Contract Analysis Informatio		Control Property Control	CONTRACTOR SECTION		
	VII performed by a contract laboratory or consulting				
	and telephone number of, and pollutants laboratory or firm below)	No (go to Section X)			
A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed		
Environmental Quality	PO Box 11485 San Juan PR 00910-1485	(787) 288-2840	All parameters on this application		
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X. Certification					
that qualified personnel properly gather ar directly responsible for gathering the info	ument and all attachments were prepared under m nd evaluate the information submitted. Based on my rmation, the information submitted is, to the best of g false information, including the possibility of fine a	inquiry of the person or persons wh f my knowledge and belief, true, ac	o manage the system or those persons curate, and complete. I am aware that		
A. Name & Official Title (Type Or Print)		B. Area Code and Phone No.			
Hans Rutzen, Operations D	irector	(787) 893-2424			
C. Signature		D. Date Signed	4 70		

VII. Discharge information (Continued from page 3 of Form 2F)

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

	The state of the s	um Values ide units)	Average Values (include units)		Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants	
Oil and Grease	2.3 mg/l	N/A			1.00	Erosion from channles and traffic	
Biological Oxygen Demand (BOD5)	10 mg/l	7 mg/l			1.00	Vegetation/Debris	
Chemical Oxygen Demand (COD)	51 mg/l	44 mg/l		н	1.00	Debris	
Total Suspended Solids (TSS)	7 mg/l	7.30 mg/l			1.00	Erosion from channles and traffic	
Total Nitrogen	0.55 mg/l	0.55 mg/l					
Total Phosphorus	0.060 mg/l	0.091 mg/l			1.00	Soil	
pH	Minimum 6.81	Maximum 7.64	Minimum	Maximum		1	

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

require	ements.					
	(includ	im Values de units)	Ave (inc	rage Values clude units)	Number	*
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
	-	*				Not Applicable
					 	
						
						
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V.						
v 8		11				

Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

	Maximum Values (include units)			rage Values clude units)	Number	* .	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants	
	30 PtCo	30 PtCo			1.00	color (Soil)	
	10.9 mg/l	9.9 mg/l		1	1.00	TOC (Soil/Debris)	
7664-41-7	<0.05 mg/l	0.06 mg/l			1.00	Ammonia (Debris) (Note 2)	
	0.12 mg/l	0.12 mg/l			1.00	residual chlorine (Clean & Wash)	
71-43-2	<0.3 ug/l	<0.3 ug/l			1.00	benzene (Note 1)	
100-41-4	<0.2 ug/l	<0.2 ug/l			1.00	ethylbenzene (Note 1)	
108-88-3	<0.2 ug/l	<0.2 ug/l			1.00	toluene (Note 1)	
108-38-3	<0.5 ug/l	<0.5 ug/l		*	1.00	m-Xylenes (Note 1)	
95-47-6	<0.2 ug/l	<0.2 ug/l			1.00	o-Xylenes (Note 1)	
19						A	
		190			v		
		i					
					9		
		100					
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			8				
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					·	v ,	
						Note 1- Results for these parameter	
			151			were not detected.	
						Sample for screening purpose only.	
						Note 2 - Results for these paramete	
						were below detectable limit.	
	*	11 4				Sample for screening purpose only.	

Part D - Pr	Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.								
1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)				
12/08/10	400 min	2.86 in	267 h	4,309 gpm	1,810,000 gal				
5/02/11	300 min	0.80 in	96 h	100 gpm recirculating	no discharge				
8/21/12	30 min	0.62 in	72 h	100 gpm recirculating	no discharge				

7. Provide a description of the method of flow measurement or estimate.

December 8, 2010 - For this storm water event a flow meter was used.

May 2, 2011 - Sample collected with the activation of P-005-10 and recycle to the WWTP. Flow estimated based on pump capacity and valve opening.

August 21. 2012 - Sample collected with the activation of P-005-10 and recycle to the WWTP. Flow estimated based on pump capacity and valve opening.

